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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/842,438	04/26/2001	Ulrich A. Muller	060967-0010-us 7498	
9629	7590 07/19/2006		EXAM	INER
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004		HARBECK, TIMOTHY M		
		*	ART UNIT	PAPER NUMBER
			3628	
			DATE MAILED: 07/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/842,438	MULLER, ULRICH A.				
Office Action Summary	Examiner	Art Unit				
	Timothy M. Harbeck	3628				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period variety reply in the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	I. nely filed the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed on 04 Ap	1) Responsive to communication(s) filed on <u>04 April 2006</u> .					
·=	This action is FINAL . 2b)⊠ This action is non-final.					
• • • • • • • • • • • • • • • • • • • •	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-8 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
•						
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>04/04/2006</u> .	5) Notice of Informal P. 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claim point to variables that are not explicitly defined, in terms of what they represent and how they are calculated. For instance independent claim 1 calls for a "constructing an exponential moving operator." Claim 3 attempts to provide this construction and states, in part, that the variable "o depends on a chosen interpolation scheme." The scope of the claim cannot be determined based on the indefinite choice of a scheme. Furthermore the variable that "o" represents is not defined in the claims and cannot be discerned. Claim 3 also uses the variable τ , which is not defined. Since this variable, τ , is a part of the determination of variables α and μ , these variables are rendered indefinite also. It is not clear where these variables are pulled, or in other words, where a person of ordinary skill could look to provide a concrete value to these variables, for the purposes of calculation. For these reasons the claims are rendered indefinite.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-8 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claimed invention as a whole must accomplish a practical application. That is, it must produce a "useful, concrete and tangible result." State Street, 149 F.3d at 1373, 47 USPQ2d at 1601-02. The purpose of this requirement is to limit patent protection to inventions that possess a certain level of "real world" value, as opposed to subject matter that represents nothing more than an idea or concept, or is simply a starting point for future investigation or research (Brenner v. Manson, 383 U.S. 519, 528-36, 148 USPQ 689, 693-96); In re Ziegler, 992, F.2d 1197, 1200-03, 26 USPQ2d 1600, 1603-06 (Fed. Cir. 1993)).

The second factor in this test for practical application is a determination of whether the claimed invention produces a concrete result. Usually, this question arises when a result cannot be assured. In other words, the process must have a result that can be substantially repeated. Note that the focus is on the result, not the steps themselves. Concrete data processing steps could still produce an unrepeatable result if the data being processed is <u>subjective</u>. However, the mere fact that the result is an estimate, prediction or other approximation that may not ultimately be found to be accurate is not a determinative factor for concreteness. Thus, an assured result refers to repeatability and ability to achieve a result rather than ultimate accuracy of the result. In the immediate instance, the calculation of the claimed invention, produces a result that may be useful and perhaps repeatable if variables are held constant, however it

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also appears to be the result of subjective processing, estimation or assumption of some factors in the data processing steps (Page 5, line 20-30; Page 6 lines 28-30; Page 15 line 30 – Page 16 line 3). The subjective choices could change the scope of the claims depending on the estimation method or interpolation method used in the process. Because the claims do not guarantee a concrete result, they are directed toward non-statutory subject matter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy M. Harbeck whose telephone number is 571-272-8123. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung S. Sough can be reached on 571-272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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